Contents

No. 1 1–178 issued in July 1988
No. 2/3 179–556 issued in August 1988

Allmansberger R → Klein A 409
Alpert K → Yoder JI 291
Alt-Moerbe J, Neddermann P, Lintig J von, Weiler EW, Schröder J: Temperature-sensitive step in Ti plasmid *vir*-region induction and correlation with cytokinin secretion by *Agrobacteria* 1
Aoyagi K, Kuhlemeier C, Chua N-H: The pea *rbcS-3A* enhancer-like element directs cell-specific expression in transgenic tobacco 179
Arst HN Jr: Localisation of several chromosome I genes of *Aspergillus nidulans*: Implications for mitotic recombination 545

Baracchini E, Glass R, Bremer H: Studies in vivo on *Escherichia coli* RNA polymerase mutants altered in the stringent response 379
Bardin R → Normand P 238
Barker RF → Borthakur D 155
Barsby TL → Kemble RJ 202
Bashkirov VI, Stoilova-Disheva MM, Prozorov AA: Interplasmidic illegitimate recombination in *Bacillus subtilis* 465
Belet M → Ghersa P 36
Bergquist PL → Love DR 84
Bibb MJ → Sinclair RB 269
Boivin R, Chalifour F-P, Dion P: Construction of a Tn*5* derivative encoding bioluminescence and its introduction in *Pseudomonas, Agrobacterium* and *Rhizobium* 50
Bokranz M → Klein A 409
Boreiko AV → Perera JR 421
Borrias WE → Madueño F 223
Borthakur D, Barker RF, Latchford JW, Rossen L, Johnston AWB: Analysis of *pss* genes of *Rhizobium leguminosarum* required for exopolysaccharide synthesis and nodulation of peas: Their primary structure and their interaction with *psi* and other nodulation genes 155
Bremer H → Baracchini E 379
Bron S → Haima P 364
Burke TJ, Callis J, Vierstra RD: Characterization of a polyubiquitin gene from *Arabidopsis thaliana* 435

Caboche M → Gabard J 206
Caillet-Fauquet P, Maenhaut-Michel G: Nature of the SOS mutator activity: Genetic characterization of untargeted mutagenesis in *Escherichia coli* 491
Callis J → Burke TJ 435
Cashel M → Sarubbi E 214
Chalifour F-P → Boivin R 50
Chambers RW, Sledziewska-Gojska E, Hirani-Hojatti S: In vivo effect of DNA repair on the transition frequency produced from a single O^6-methyl- or O^6-*n*-butylguanine in a T:G base pair 325
Chater KF → Rodicio MR 346
Chekuolene YV → Gordenin DA 388
Chernoff YO → Gordenin DA 388
Chua N-H → Aoyagi K 179
Claverys J-P → Méjean V 444
Collins O'Neil Ray → Silliker ME 370
Comeau DE, Inouye M: A novel method for the cloning of chromosomal mutations in a single step: Isolation of two mutant alleles of *envZ*, an osmoregulatory gene from *Escherichia coli* 166
Coupland G → Knapp S 285

Damm B, Willmitzer L: Regeneration of fertile plants from protoplasts of different *Arabidopsis thaliana* genotypes 15
Davidson JN → Maley JA 278
Delorme MO, Hénaut A, Vigier P: Mutations in the *NAM2* genes of *Saccharomyces cerevisiae* and *S. douglasii* are clustered non-randomly as a result of constraints on the nucleic acid sequence and not on the protein 310
Deshusses J → Ghersa P 36
Dion P → Boivin R 50
Dobrinski B → Ghersa P 36
Dujardin G → Herbert CJ 297
Dunne PW, Oakley BR: Mitotic gene conversion, reciprocal recombination and gene replacement at the *benA*, beta-tubulin, locus of *Aspergillus nidulans* 339

Elliott T, Roth JR: Characterization of Tn*10d*-Cam: A transposition-defective Tn*10* specifying chloramphenicol resistance 332
Englert C → Horne M 459
Ennis DG, Peterson KR, Mount DW: Increased expression of the *Escherichia coli umuDC* operon restores *SOS* mutagenesis in *lexA41* cells 541
Espin G → Morett E 499

Finnerty V → Stivaletta L 505
Fisher R → Love DR 84
Friedberg EC → Naumovski L 400
Frost LS, Paranchych W: DNA sequence analysis of point mutations in *traA*, the F pilin gene, reveal two domains involved in F-specific bacteriophage attachment 134

Gabard J, Pelsy F, Marion-Poll A, Caboche M, Saalbach I, Grafe R, Müller AJ: Genetic analysis of nitrate reductase deficient mutants of *Nicotiana plumbaginifolia*: Evidence for six complementation groups among 70 classified molybdenum cofactor deficient mutants 206
Gabor Miklos GL → Healy MJ 63
Gallant J → Martin R 144
Ganal MW, Lapitan NLV, Tanksley SD: A molecular and cytogenetic survey of major repeated DNA sequences in tomato (*Lycopersicon esculentum*) 262
Ghersa P, Lurz R, Dobrinski B, Deshusses J, Belet M: Genetic evidence for the existence of a repressor that modulates colicin D expression on plasmid ColD-CA23 36
Gilbert HJ → Hall J 112
Giuliano G, Pollock D, Stapp H, Scolnik PA: A genetic-physical map of the *Rhodobacter capsulatus* carotenoid biosynthesis gene cluster 78
Glaser VM → Perera JR 421
Glass R → Baracchini E 379
Glasunov AV → Perera JR 421
Gordenin DA, Trofimova MV, Shaburova ON, Pavlov YI, Chernoff YO, Chekuolene YV, Proscyavichus YY, Sasnauskas KV, Janulaitis AA: Precise excision of bacterial transposon Tn*5* in yeast 388
Grafe R → Gabard J 206
Guerineau M → Iborra F 150
Guerrero MG → Madueño F 223

Hachtel W → Stein J vom 513
Hahlbrock K → Somssich IE 93
Hahn DR, Myers RS, Kent CR, Maloy SR: Regulation of proline utilization in *Salmonella typhimurium*: Molecular characterization of the *put* operon, and DNA sequence of the *put* control region 125
Haima P, Bron S, Venema G: A quantitative analysis of shotgun cloning in *Bacillus subtilis* protoplasts 364
Hall J, Gilbert HJ: The nucleotide sequence of a carboxymethylcellulase gene from *Pseudomonas fluorescens* subsp. *cellulosa* 112
Harper JF, Mages W: Organization and structure of *Volvox* β-tubulin genes 315
Harper JF → Mages W 449
Healy MJ, Russell RJ, Gabor Miklos GL: Molecular studies on interspersed repetitive and unique sequences in the region of the complementation group uncoordinated on the *X* chromosome of *Drosophila melanogaster* 63
Hearn M → Martin R 144
Hénaut A → Delorme MO 310
Herbert CJ, Dujardin G, Labouesse M, Slonimski PP: Divergence of the mitochondrial leucyl tRNA synthetase genes in two closely related yeasts *Saccharomyces cerevisiae* and *Saccharomyces douglasii*: A paradigm of incipient evolution 297
Herrero M → Lorenzo V de 487
Hirani-Hojatti S → Chambers RW 325
Hirayama T, Muranaka T, Ohkawa H, Oka A: Organization and characterization of the *virCD* genes from *Agrobacterium rhizogenes* 229
Holtrop M → Kuiper MTR 519

Horne M, Englert C, Pfeifer F: Two genes encoding gas vacuole proteins in *Halobacterium halobium* 459
Houlné G, Schantz R: Characterization of cDNA sequences for LHCI apoproteins in *Euglena gracilis*: The mRNA encodes a large precursor containing several consecutive divergent polypeptides 479
Hughes C → Koronakis V 99
Hughes C → Koronakis V 551
Hupp TR, Kaguni JM: Suppression of the *Escherichia coli dnaA46* mutation by a mutation in *trxA*, the gene for thioredoxin 471

Iborra F, Raynal A, Guerineau M: The promoter of the *β*-glucosidase gene from *Kluyveromyces fragilis* contains sequences that act as upstream repressing sequences in *Saccharomyces cerevisiae* 150
Iino T → Tsuda M 72
Imai M → Nagata T 163
Inouye M → Comeau DE 166

Jacobs-Lorena M → Kay MA 354
Janulaitis AA → Gordenin DA 388
Jenny P → Martin R 144
Johnston AWB → Borthakur D 155

Kaguni JM → Hupp TR 471
Kang Y-W, Miller DL: Nuclear and mitochondrial revertants of a yeast mitochondrial tRNA mutant 425
Kao TH → Moon E 247
Kato A → Taira T 170
Kawalleck P → Somssich IE 93
Kay MA, Zhang J-Y, Jacobs-Lorena M: Identification and germline transformation of the ribosomal protein *rp21* gene of *Drosophila:* Complementation analysis with the *Minute* QIII locus reveals non-identity 354
Kemble RJ, Barsby TL, Yarrow SA: Transformation of plant mitochondria with mitochondrial DNA plasmids via protoplast fusion 202
Kent CR → Hahn DR 125
Kiss Á → Schablik M 140
Klein A, Allmansberger R, Bokranz M, Knaub S, Müller B, Muth E: Comparative analysis of genes encoding methyl coenzyme M reductase in methanogenic bacteria 409
Knapp S, Coupland G, Uhrig H, Starlinger P, Salamini F: Transposition of the maize transposable element *Ac* in *Solanum tuberosum* 285
Knaub S → Klein A 409
Komano T → Kubo A 30
Koornneef M → Sharrock RA 9
Koronakis E → Koronakis V 551
Koronakis V, Hughes C: Identification of the promotors directing in vivo expression of hemolysin genes in *Proteus vulgaris* and *Escherichia coli* 99
Koronakis V, Koronakis E, Hughes C: Comparison of the haemolysin secretion protein HlyB from *Proteus vulgaris* and *Escherichia coli*; site-directed mutagenesis causing impairment of expert function 551

Kubo A, Kusukawa A, Komano T: Nucleotide sequence of the *rci* gene encoding shufflon-specific DNA recombinase in the IncI1 plasmid R64: Homology to the site-specific recombinases of integrase family 30
Kuhlemeier C → Aoyagi K 179
Kuiper MTR, Holtrop M, Vries H de: Integration and expression of 3′-truncated derivatives of the *Neurospora crassa cyt-21*$^+$ gene, encoding a mitochondrial ribosomal protein, in *Neurospora* transformants 519
Kurata N, Marunouchi T: Retention of autonomous replicating plasmids in cultured *Drosophila* cells 359
Kusukawa A → Kubo A 30

Labouesse M → Herbert CJ 297
Langley S → Stivaletta L 505
Lapitan NLV → Ganal MW 262
Lassner M → Yoder JI 291
Latchford JW → Borthakur D 155
Lengeler JW → Vogler AP 175
Lintig J von → Alt-Moerbe J 1
López-Revilla R, Martinez HG, del Socorro Santos-Díaz M: Isolation and characterization of mammalian cell lines carrying suppressible mutations 105
Lorenzo V de, Herrero M, Neilands JB: IS*1*-mediated mobility of the aerobactin system of pColV-K30 in *Escherichia coli* 487
Love DR, Fisher R, Bergquist PL: Sequence structure and expression of a cloned *β*-glucosidase gene from an extreme thermophile 84
Lurz R → Ghersa P 36

Madueño F, Borrias WE, Van Arkel GA, Guerrero MG: Isolation and characterization of *Anacystis nidulans* R2 mutants affected in nitrate assimilation: Establishment of two new mutant types 223
Maenhaut-Michel G → Caillet-Fauquet P 491
Mages W, Salbaum JM, Harper JF, Schmitt R: Organization and structure of *Volvox* α-tubulin genes 449
Mages W → Harper JF 315
Maley JA, Davidson JN: The aspartate transcarbamylase domain of a mammalian multifunctional protein expressed as an independent in *Escherichia coli* 278
Maloy SR → Hahn DR 125
Marion-Poll A → Gabard J 206
Marmur J → Sollitti P 56
Martin R, Hearn M, Jenny P, Gallant J: Release factor competition is equivalent at strong and weakly suppressed nonsense codons 144
Martinez HG → López-Revilla R 105
Márton L → Thanh ND 186
Marunouchi T → Kurata N 359
Medgyesy P → Thanh ND 186
Méjean V, Claverys J-P: Polarity of DNA entry in transformation of *Streptococcus pneumoniae* 444
Messer W → Quiñones A 118
Miller DL → Kang Y-W 425
Minagawa T → Yonesaki T 548

Moon E, Kao T-H, Wu R: Rice mitochondrial genome contains a rearranged chloroplast gene cluster 247
Moreno S → Morett E 499
Morett E, Moreno S, Espin G: Transcription analysis of the three *nifH* genes of *Rhizobium phaseoli* with gene fusions 499
Mount DW → Ennis DG 541
Müller AJ → Gabard J 206
Müller B → Klein A 409
Murakami Y → Nagata T 163
Muranaka T → Hirayama T 229
Murialdo H: Lethal effect of *λ* DNA terminase in recombination deficient *Escherichia coli* 42
Muth E → Klein A 409
Myers RS → Hahn DR 125

Nagata T, Murakami Y, Imai M: Requirement of the *Escherichia coli dnaA* gene function for integrative suppression of *dnaA* mutations by plasmid R100-1 163
Nakayama H → Shiota S 21
Naumovski L, Friedberg EC: Rad3 protein of *Saccharomyces cerevisiae:* Overexpression and preliminary characterization using specific antibodies 400
Neddermann P → Alt-Moerbe J 1
Neilands JB → Lorenzo V de 487
Normand P, Simonet P, Bardin R: Conservation of *nif* sequences in *Frankia* 238

Oakley BR → Dunne PW 339
Ohkawa H → Hirayama T 229
Oka A → Hirayama T 229

Palys J → Yoder JI 291
Paranchych W → Frost LS 134
Parks BM → Sharrock RA 9
Pavlov YI → Gordenin DA 388
Páy A → Thanh ND 186
Pelsy F → Gabard J 206
Perera JR, Glasunov AV, Glaser VM, Boreiko AV: Repair of double-strand breaks in plasmid DNA in the yeast *Saccharomyces cerevisiae* 421
Peterson KR → Ennis DG 541
Pfeifer F → Horne M 459
Pollock D → Giuliano G 78
Proscyavichus YY → Gordenin DA 388
Prozorov AA → Bashkirov VI 465

Quail PH → Sharrock RA 9
Quiñones A, Messer W: Discoordinate gene expression in the *dnaA-dnaN* operon of *Escherichia coli* 118

Rådström P → Sundström L 191
Raynal A → Iborra F 150
Roggenkamp R: Constitutive appearance of peroxisomes in a regulatory mutant of the methylotrophic yeast *Hansenula polymorpha* 535
Rodicio MR, Chater KF: Cloning and expression of the *SalI* restriction-modification genes of *Streptomyces albus G* 346
Rossen L → Borthakur D 155
Roth JR → Elliott T 332
Rudd KE → Sarubbi E 214
Russell RJ → Healy MJ 63

Saalbach I → Gabard J 206
Salamini F → Knapp S 285
Salbaum JM → Mages W 449
Sarubbi E, Rudd KE, Cashel M: Basal ppGpp level adjustment shown by new *spoT* mutants affect steady state growth rates and *rrnA* ribosomal promoter regulation in *Escherichia coli* 214
Sasnauskas KV → Gordenin DA 388
Schablik M, Kiss Á, Zsindely A, Szabó G: Characterization of a mutation that causes overproduction of inositol in *Neurospora crassa* 140
Schantz R → Houlné G 479
Schmelzer E → Somssich IE 93
Schmitt R → Mages W 449
Schröder J → Alt-Moerbe J 1
Scolnik PA → Giuliano G 78
Shaburova ON → Gordenin DA 388
Sharrock RA, Parks BM, Koornneef M, Quail PH: Molecular analysis of the phytochrome deficiency in an *aurea* mutant of tomato 9
Shiota S, Nakayama H: Evidence for a *Micrococcus luteus* gene homologous to *uvrB* of *Escherichia coli* 21
Silliker ME, Collins O'Neil Ray: Non-mendelian inheritance of mitochondrial DNA and ribosomal DNA in the myxomycete, *Didymium iridis* 370
Simonet P → Normand P 238
Sinclair RB, Bibb MJ: The repressor gene (*c*) of the *Streptomyces* temperatue phage φc31: Nucleotide sequence, analysis and functional cloning 269
Sipiczki M: The role of sterility genes (*ste* and *aff*) in the initiation of sexual development in *Schizosaccharomyces pombe* 529
Sköld O → Sundström L 191
Sledziewska-Gojska E → Chambers RW 325
Slonimski PP → Herbert CJ 297
Smith MA → Thanh ND 186
Socorro Santos-Díaz M del → López-Revilla R 105
Sollitti P, Marmur J: Primary structure of the regulatory gene from the *MAL6* locus of *Saccharomyces carlsbergensis* 56
Somssich IE, Schmelzer E, Kawalleck P, Hahlbrock K: Gene structure and in situ transcript localization of pathogenesis-related protein 1 in parsley 93
Spalding MH → Winder T 394
Stapp H → Giuliano G 78
Starlinger P → Knapp S 285
Stein J vom, Hachtel W: Deletions/insertions, short inverted repeats, sequences resembling *att*-lambda, and frame shift mutated open reading frames are involved in chloroplast DNA differences in the genus *Oenothera* subsection *Munzia* 513
Stivaletta L, Warner CK, Langley S, Finnerty V: Molybdoenzymes in *Drosophila*. IV. Further characterization of the *cinnamon* phenotype 505
Stoilova-Disheva MM → Bashkirov VI 465
Sundström L, Rådström P, Swedberg G, Sköld O: Site-specific recombination promotes linkage between trimethoprim- and sulfonamide resistance genes. Sequence characterization of *dhfrV* and *sulI* and a recombination active locus of Tn*21* 191
Swedberg G → Sundström L 191
Szabó G → Schablik M 140

Taira T, Kato A, Tanifuji S: Difference between two major size classes of carrot rDNA repeating units is due to reiteration of sequences of about 460 bp in the large spacer 170
Tanifuji S → Taira T 170
Tanksley SD → Ganal MW 262
Tanksley SD → Zamir D 254
Thanh ND, Páy A, Smith MA, Medgyesy P, Márton L: Intertribal chloroplast transfer by protoplast fusion between *Nicotiana tabacum* and *Salpiglossis sinuata* 186
Trofimova MV → Gordenin DA 388
Tsuda M, Iino T: Identification and characterization of Tn*4653*, a transposon covering the toluene transposon Tn*4651* on TOL plasmid pWW0 72

Uhrig H → Knapp S 285

Van Arkel FA → Madueño F 223
Venema G → Haima P 364
Vierstra RD → Burke TJ 435
Vigier P → Delorme MO 310
Vogler AP, Lengeler JW: Complementation of a truncated membrane-bound Enzyme II^{Nag} from *Klebsiella pneumoniae* with a soluble Enzyme III in *Escherichia coli* K12 175
Vries H de → Kuiper MTR 519

Warner CK → Stivaletta L 505
Weiler EW → Alt-Moerbe J 1
Willmitzer L → Damm B 15
Winder T, Spalding MH: Imazaquin and chlorsulfuron resistance and cross resistance in mutants of *Chlamydomonas reinhardtii* 394
Wu R → Moon E 247

Yarrow SA → Kemble RJ 202
Yoder JI, Palys J, Alpert K, Lassner M: *Ac* transposition in transgenic tomato plants 291
Yonesaki T, Minagawa T: In vitro and in vivo recombination-related reactions of *Escherichia coli recA* protein and glucosyl-hydroxymethyl-deoxycytidine DNA 548

Zamir D, Tanksley SD: Tomato genome is comprised largely of fast-evolving, low copy-number sequences 254
Zhang J-Y → Kay MA 354
Zsindely A → Schablik M 140

Indexed in *Current Contents*